



**KANOMAX**  
The Ultimate Measurements

## PORTABLE PARTICLE COUNTERS 3900 SERIES

The Kanomax 3900 Series offers compact, high-performance 6-channel particle counters tailored for cleanroom and controlled environmental monitoring. The series includes the 3905 (1.0 CFM / 28.3 LPM), 3910 (1.77 CFM / 50 LPM), and 3920 (3.5 CFM / 100 LPM) models, each optimized for varying sampling flows. With sensitivity down to 0.3  $\mu\text{m}$  (for models 3905 and 3910) and 0.5  $\mu\text{m}$  (for 3920), these instruments simultaneously measure up to six particle sizes from 0.3 to 10  $\mu\text{m}$ .

The 3900 Series supports multiple cleanroom standards (ISO, FS 209E, BS 5295, EC GMP) and is fully compliant with ISO 21501-4 calibration standards.

## APPLICATIONS

- ❖ **Cleanroom Certification** – Monitor and verify compliance with ISO 14644:2015 standards.
- ❖ **Healthcare Environments** – Ensure air cleanliness in surgical and hospital rooms.
- ❖ **Filter Testing** – Evaluate and validate air filtration system performance.
- ❖ **Indoor Air Quality (IAQ)** – Investigate particle levels in various facilities.
- ❖ **Data Centers** – Verify cleanliness during construction, maintenance, and cleaning.



## FEATURES AND BENEFITS

- ❖ **Wide Particle Size Range:** Detects and reports particles at 0.3, 0.5, 1.0, 3.0, 5.0, and 10.0  $\mu\text{m}$ .
- ❖ **Multiple Flow Rate Options:** Available with 28.3 LPM (1.0 CFM), 50 LPM (1.77 CFM), and 100 LPM (3.5 CFM) models to accelerate sampling.
- ❖ **High Sensitivity:** Offers 0.3  $\mu\text{m}$  detection sensitivity with flow rates up to 50 LPM.
- ❖ **Simultaneous Measurement:** Measures and displays up to six particle sizes in real time, from 0.3 to 10  $\mu\text{m}$ .
- ❖ **Standards Compliance:** Fully compliant with ISO 21501-4 calibration standards and supports certification of cleanrooms up to ISO Class 2.
- ❖ **Optional Environmental Monitoring:** Integrates with Climomaster® sensors to measure air velocity, temperature, and humidity.
- ❖ **User-Friendly Interface:** ICON-driven touch-screen menus are intuitive, simple to learn, and quick to operate.
- ❖ **Certified Accuracy:** Supplied with a NIST traceable calibration certificate for quality assurance.
- ❖ **Large Data Capacity:** Stores up to 10,000 records across six channels and up to 50 user-defined sampling "recipes."
- ❖ **Secure Data Transfer:** Supports USB flash drive backup for reliable data integrity.
- ❖ **Regulatory Support:** 21 CFR Part 11 compliant with optional IQ/OQ documentation available.
- ❖ **Integrated Reporting:** Built-in thermal printer and onboard datalogging (up to 10,000 records) standard on models 3905 and 3910.
- ❖ **Versatile Connectivity:** Equipped with Ethernet, RS-485, USB, and flash memory card interfaces for seamless system integration.

# PRODUCT SPECIFICATIONS

Main Unit Specifications			
Model	3905	3910	3920
Light Source	Laser diode		
Measuring Particle Size	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 (μm)		0.5, 0.7, 1.0, 3.0, 5.0, 10.0 (μm)
Flow Rate	1.0 CFM (28.3 LPM)	1.77 CFM (50 LPM)	3.5 CFM (100 LPM)
Counting Efficiency	50±20% at 0.3μm		50±20% at 0.5μm
Concentration Limit	500,000 particles/ft <sup>3</sup> at 10% coincidence loss		300,000 particles/ft <sup>3</sup> at 10% coincidence loss
Sampling Time	6sec ~ 23hours 59min 59sec (configurable)		
Interval Time	6sec ~ 23hours 59min 59sec (configurable)		
Zero Count Level	Less than 1 count / 5 minutes		
Printer	Built-in thermal printer		
Display	6.4 inch color touch screen		
Interface	Ethernet, USB, Memory card slot (MMC)		
Data Storage	10,000 data points		
Security	Password authentication and management, secure data, and audit trails (meets 21 CFR Part 11 compliance)		
Reports	ISO146441-1, GB/T16292-2010, FEDERAL STANDARD, BRITISH STANDARD, EU GMP		
Standards	ISO 21501-4, JIS B9921, CE		
Power	AC 100 – 240 V or Li-ion Battery		
Dimensions	W 7.9 x D 7.9 x H 8.1 inch		
Weight	14.2 lbs (6.44 kg)		
Warranty	2 year		
Environmental Sensor	Air Velocity, Temperature, Relative Humidity and Pressure		
What's included	Quick-start guide, AC adapter, zero filter, Isokinetic probe with 79 inch (2m) tubing, inlet nozzle, data processing software, memory card, 2 rolls of cleanroom-grade printer paper, 1 x Li-ion battery and calibration certificate		

*\*Specifications are subject to change without notice.*

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